

Sara Candussio

PHD STUDENT IN NATURAL LANGUAGE PROCESSING

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Education

University of Trieste, AI Lab

Doctorate (PhD) in Natural Language Processing

Trieste, Italy

November 2024 - Present

- Reasoning using generative language models.
- Supervised by Luca Bortolussi (University of Trieste) and Gabriele Sarti (University of Groningen, Center for Language and Cognition).
- Co-instructor of the Probabilistic Machine Learning MSc course and co-supervisor of MSc thesis projects.

University of Trieste & International School for Advanced Studies (SISSA)

Master's of Science (MSc) in Data Science and Scientific Computing

Trieste, Italy

October 2022 - September 2024

- Data Science and Artificial Intelligence track, all courses taught and assessed in English. Graduation score: 110 Cum Laude.
- Thesis: A Dialectic Pipeline for Improving LLM Robustness. Supervisors: Luca Bortolussi, Gabriele Sarti.

University of Trieste

Bachelor's Degree (BSc) in Statistics and Computer Science for Business, Finance and Insurance

Trieste, Italy

September 2019 - September 2022

- All courses taught and assessed in Italian. Graduation score: 110 Cum Laude.
- Thesis: Beta-binomial regression model for inferring the number of BSc graduate students in Italian universities. Supervisor: Francesco Pauli

Work Experience

Rachael S.r.l.

Research Scientist

Trieste, Italy

October 2023 - March 2024

- Sentiment analysis and topic modeling on web-scraped opinions.
- Question Answering on PDF documents using RAG and OCR techniques.
- Synthetic tabular data generation using past polls data.

University of Trieste

Probabilistic Machine Learning MSc course teaching assistant

Trieste, Italy

March 2025 - Present

- Review lectures and practical lab sessions in Python. Course topics: ERM, PAC learnability, Probabilistic Graphical Models, Hidden Markov Models, Bayesian Classification and Regression, Sampling-based Inference, Expectation-Maximization algorithm, Variational Inference, Generative Modeling (VAEs, Diffusion Models), Gaussian Processes.

University of Trieste

Communication and media manager tutor for the PhD, MSc and BSc activities

Trieste, Italy

March 2025 - Present

- Help in spreading information regarding seminars, internships, workshops, social events across the different courses of the informatics section of University of Trieste.

University of Trieste

Orientation tutor for incoming MSc students

Trieste, Italy

May 2023 - December 2023

- Helpdesk for non-EU and EU students regarding admission and enrolling procedures.

Extracurricular Activity

SOCIAL ENGAGEMENTS

- 2024-Present VicePresident, [!\[\]\(95b42f0077faf7439a26242a54e021ec_img.jpg\) AI Student Society \(AI2S\)](#)
- 2023-Present Board member, [!\[\]\(e097ab4c08b8186dd0908330bbc2dc28_img.jpg\) AI Student Society \(AI2S\)](#)
- 2021-2024 Board member and Founder, [!\[\]\(1e9d865c5de095f8e3304757c49e79d7_img.jpg\) Lista AutonomaMente \(LAM\) APS](#)
- 2023-Present Department Representative, Mathematics, Informatics, Geosciences (MIGe)
- 2021-2023 Department Representative, Economics and Statistics (DEAMS)

Honors & Awards

- 2019-2022 Merit scholarship, Generali4Girls in STEM *Trieste (IT)*
- 2024 3rd place winner, "ACCELERATE AI" hackaton (AINDO) *Trieste (IT)*